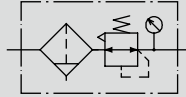




Compact filter/regulator WB500 Series

JIS symbol



Features

- **Compact**
Push-in fitting and bracket are integrated to reduce total space.
- **Lightweight**
Resin is used in body material to reduce weight.
- **Increased workability**
Push-in fitting is provided as standard. The piping direction can be selected from straight or elbow. Plumbing is easy.

Specifications

Item	WB500	
Working fluid	Compressed air	
Max. working pressure MPa	1.0 (≈150 psi, 10 bar)	
Proof pressure MPa	1.5 (≈220 psi, 15 bar)	
Ambient / fluid temperatures °C	5 (41°F) to 60 (140°F)	
Filtration rating μm	5	
Set pressure MPa	0.05 (≈7.3 psi, 0.5 bar) to 0.7 (≈100 psi, 7 bar) (*1)	
Pressure relief	With relief mechanism	
Drain capacity cm ³	1.0	
Drainage method	Manual	
Port size	IN/OUT	Push-in fitting: ø4/ø6
	GAUGE	Rc1/8
Weight g	100	

*1: Low pressure specifications are 0.05 MPa to 0.35 MPa.

How to order

WB500 - SSC4 - PG39

A Connection

B Option

Code	Description	
A Connection		
Direction		
S	Straight	IN
L	Elbow	
S	Straight	OUT
L	Elbow	
Bore size		
C4	ø4	
C6	ø6	
B Option		
Panel mounting	Blank	Without nut
*3	P	With nut
Pressure range	Blank	0.05 to 0.7 MPa (Pressure gauge: G29D-6-P10)
	L	0.05 to 0.35 MPa (Pressure gauge: G39D-6-P04)
Pressure relief	Blank	Relief
	N	Non-relief
Pressure gauge	Blank	With pressure gauge
	T	No pressure gauge (gauge port Rc1/8)
	*2 G39	With pressure gauge (G39D-6-P10)
Flow direction	Blank	Standard flow (left → right)
	X1	Reverse flow (right → left)
Drain plug material	Blank	Polycarbonate
	Z	Opaque nylon *1

⚠ Precautions for model No. selection

- *1: The same material (nylon) as the body is used, so the plug is not transparent.
 *2: ø21 0 to 1.0 MPa pressure gauge is standard. For low pressure, ø27 0 to 0.4 MPa low pressure gauge is provided.
 *3: Select option code "P" when mounting on a panel.

[Example of model No.]

WB500-SSC4-PG39

- A** Connection (direction): Both IN and OUT are straight
 Port size (Bore size) : ø4
B Option : Panel mount
C Pressure gauge : ø27 0 to 0.1 MPa Pressure gauge

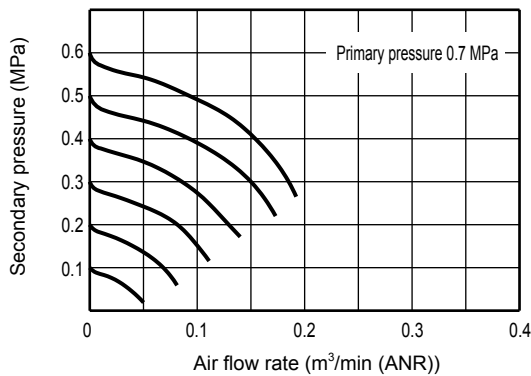
Option weight

* Add to the weight of the standard accessories.

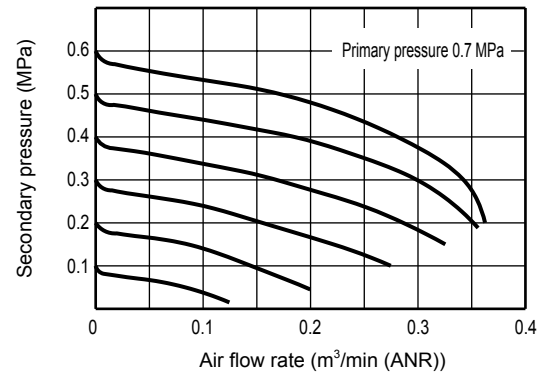
Panel mount	P	With nut	2 g
Pressure range	L	0.05 to 0.35 MPa	19 g
Pressure gauge	T	No pressure gauge	-12 g(L:-31 g)
	G39	With pressure gauge	19 g

Flow characteristics

● WB500-**C4

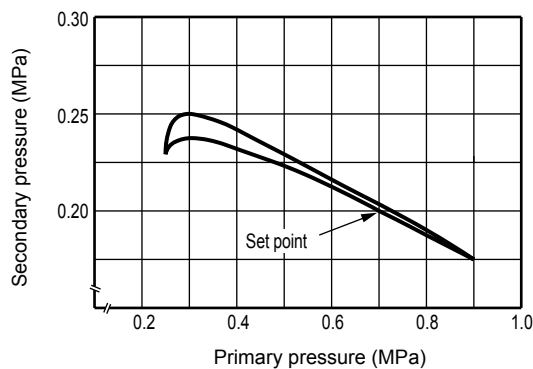


● WB500-**C6



Pressure characteristics

● WB500



⚠ Safety precautions

■ Precautions for piping

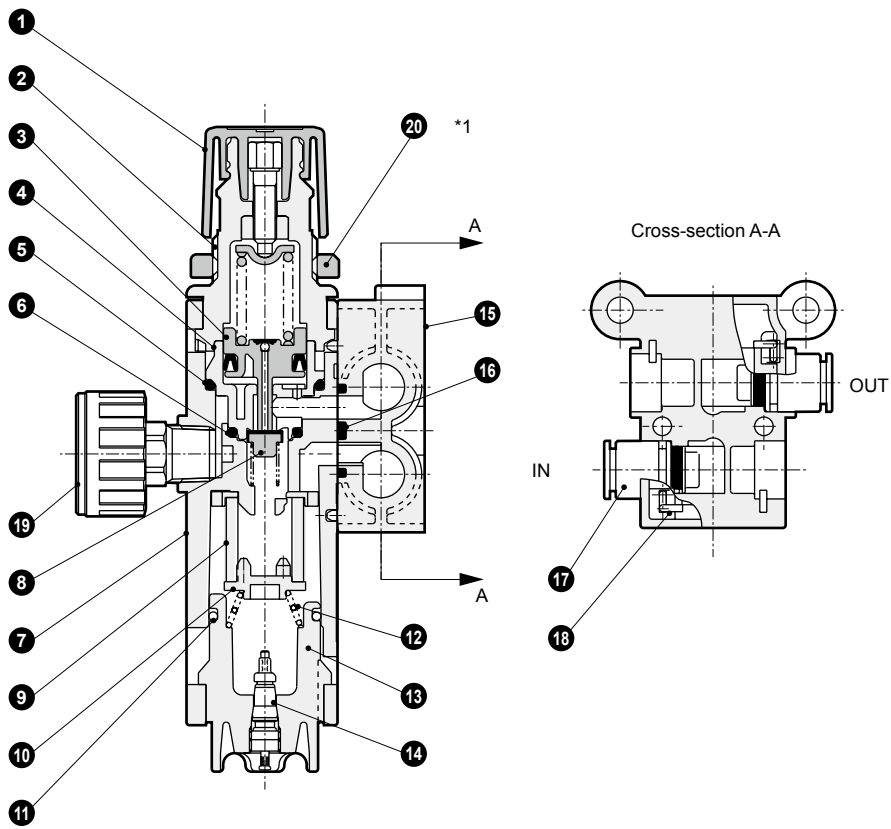
- Do not use this product in an atmosphere containing organic solvents or chemicals, etc., or where the product could come in contact with them.
- Avoid direct exposure to sunlight.
- Avoid using this product where vibration and impact are present.
- Install so that the drain plug faces straight down.
- Avoid use where there are large amounts of drainage. For use, install an air dryer or drain separator on the IN side.
- Flush the pipes carefully before installation.
- Use a CKD soft nylon tube or urethane tube for the piping tubes.
- Do not insert the piping tube at a slant as it could dislocate.
- Securely insert a tube into the push-in fitting before use.
- Turn the pressure adjustment knob clockwise to increase secondary pressure and counterclockwise to lower pressure.
- Check the primary pressure carefully before setting the pressure.
- Stop the primary pressure and release the residual pressure before starting maintenance.
- Mount the pressure gauge with a tightening torque of 3.5 N·m or less.

F.R.L.
F.R.
F (Filtr)
R (Reg)
L (Lub)
Drain Separ
Mech Press SW
Res press exh valve
SlowStart
Anti-bac/Bac-remove Filtr
Film Resist FR
Oil-ProhR
Med Press FR
No Cu/ PTFE FRL
Outdrs FRL
Adapter Joiner
Press Gauge
CompFRL
LgFRL
PrecsR
VacF/R
Clean FR
ElecPneuR
AirBoost
Speed Ctrl
Silncr
CheckV/ other
Fit/Tube
Nozzle
Air Unit
PrecsCompn
Electro Press SW
ContactSW
AirSens
PresSW Cool
Air Flo Sens/Ctrl
WaterRISens
TotAirSys (Total Air)
TotAirSys (Gamma)
Gas generator
RefrDry
DesicDry
HiPolymDry
MainFiltr
Dischrg etc
Ending

WB500 Series

F.R.L. Internal structure and parts list

- F.R.
- F (Filtr)
- R (Reg)
- L (Lub)
- Drain Separ
- Mech Press SW
- Res press exh valve
- SlowStart
- Anti-bac/Bac-remove Filt
- Film Resist FR
- Oil-ProhR
- Med Press FR
- No Cu/ PTFE FRL
- Outdrs FRL
- Adapter Joiner
- Press Gauge
- CompFRL
- LgFRL
- PrecsR
- VacF/R
- Clean FR
- ElecPneur
- AirBoost
- Speed Ctrl
- Silncr
- CheckV/ other
- Fit/Tube
- Nozzle
- Air Unit
- PrecsCompn
- Electro Press SW
- ContactSW
- AirSens
- PresSW Cool
- Air Flo Sens/Ctrl
- WaterRtSens
- TotAirSys (Total Air)
- TotAirSys (Gamma)
- Gas generator
- RefrDry
- DesicDry
- HiPolymDry
- MainFiltr
- Dischrg etc
- Ending



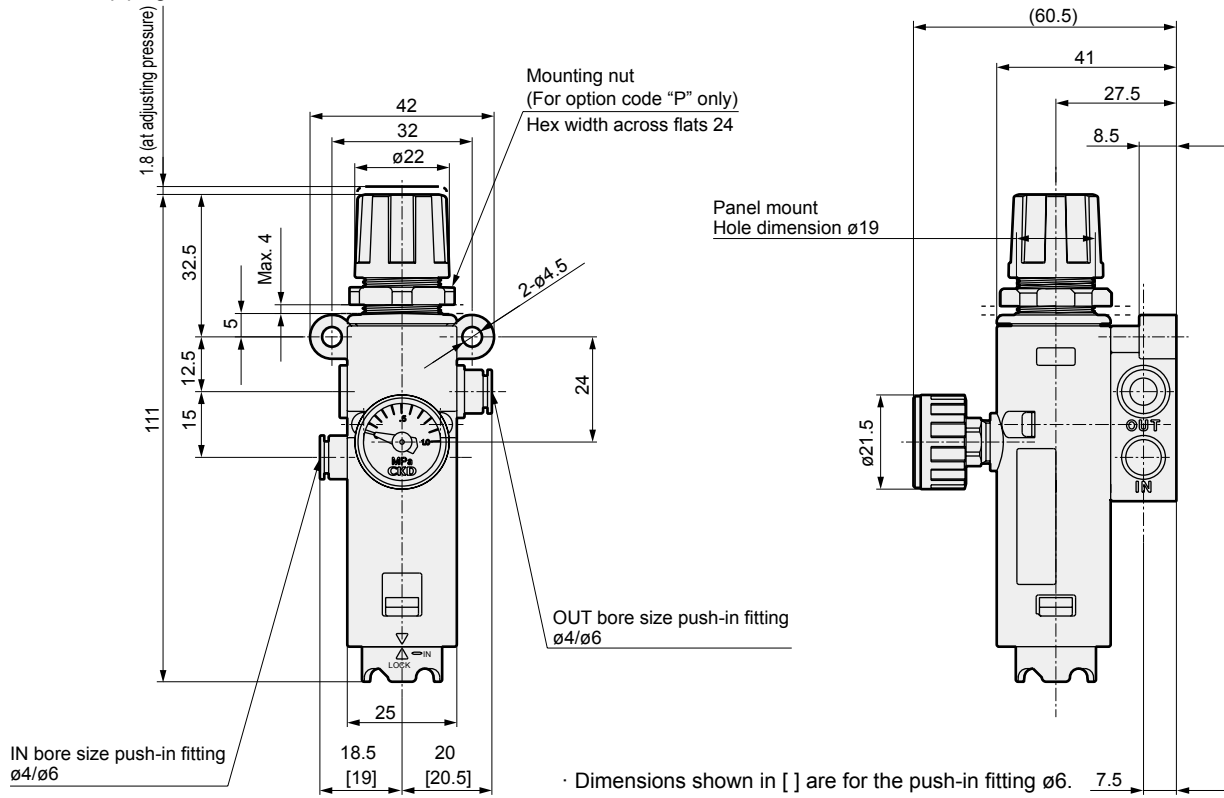
No.	Part name	Material
1	Knob	Polyacetal resin
2	Cover	Polyamide resin
3	Piston assembly	Polyacetal resin, nitrile rubber
4	Piston guide	Polyacetal resin
5	O-ring	Nitrile rubber
6	O-ring	Nitrile rubber
7	Body	Polyamide resin
8	Valve element	Aluminum, hydrogenated nitrile rubber
9	Element	Polypropylene
10	Baffle	Polyacetal resin
11	O-ring	Special nitrile rubber
12	Spring	Stainless steel
13	Drain plug	Polycarbonate resin
14	Valve	
15	Piping block assembly	Polyamide resin/steel
16	Body packing seal	Hydrogenated nitrile rubber
17	Cartridge fitting	
18	Lock pin	Stainless steel
19	Pressure gauge	
20	Mounting nut	Polyacetal resin

*1: A mounting nut is optional. Nut is attached only for option code "P".

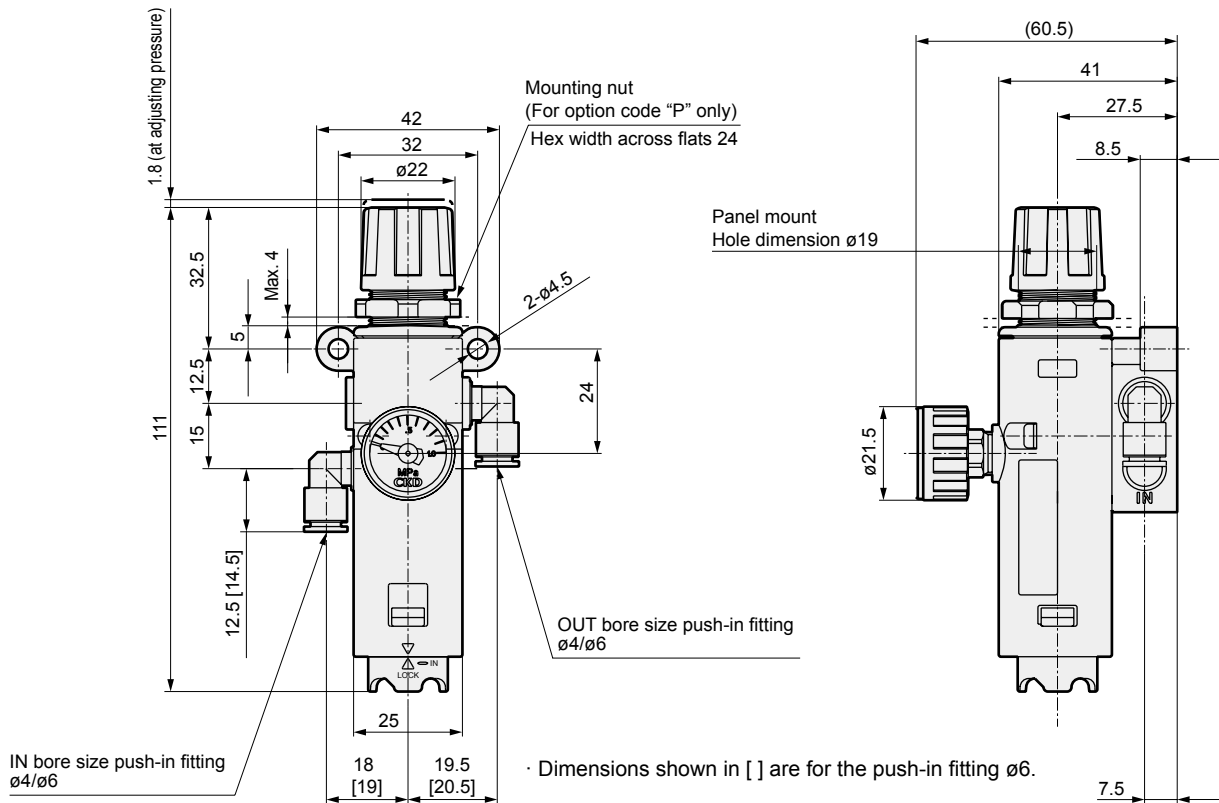
Dimensions



● WB500 axial piping



● WB500 elbow piping



F.R.L.
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Drain Separ
Mech Press SW
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